

ADDITIONAL DESCRIPTIONS AND SPECIFICATIONS FOR SAGA EXCLUSION REQUESTS

7. Product 1095 ra greater than or equal to 8, width 24.5".

HTSUS 7225.50.80.

The product is a cold rolled strip for hardening with special low roughness (bright finish) in hard rolled condition and wide widths. To SAGA's knowledge, there is no U.S. production in these widths nor are there any substitute products. Production requires a wide strip mill, provided by special rolling technology and special grinded work rolls. The products will be finished (hardened in the United States and are used in the manufacture of shock absorbers.

Chemistry:

C = 0.97 - 1.03 percent

Si = 0.15 - 0.30 percent

Mn = 0.40 - 0.50 percent

P = max. 0.020 percent

S = max. 0.003 percent

Al = max. 0.010 percent

Cr = 0.31 - 0.50 percent

Roughness: Ra (RMS) max. 8µinch

Width: 24.5 - 40.0 inches

The thickness to be delivered in these wide widths are 0.2 to 3.0 mm (.008 - 0.12 inches).

12. Product C 125 pin point

HTSUS 7226.92.50.

This product is used in the production of various types of saws, especially technical optimizing for hardening of saw tooths. SAGA is aware of some German producers of this product, but to SAGA's knowledge, there is no U.S. production. The product is a cold rolled steel strip, carbon content approximately 1.25 percent with a pin point carbide structure that means a very high number of carbide in the material structure. The dimensions are thickness 0.6 - 0.9 mm = .024 - .036 mm; width 200-400 mm = 8 - 16 inches. Production requires special melting companies for this grade with special hot rolling technology as precondition for obtaining the special structure, as well as additional cold rolling technology to finalize the pin point structure.

Thickness = 0.20 - 0.80 inches

Chemistry:

C = 1.20 - 1.30 percent

Si = 0.15 - 0.30 percent

Mn = 0.20 - 0.50 percent

P = max. 0.020 percent

S = max. 0.010 percent

Al = max. 0.010 percent

Cr = 0.31 - 0.50 percent

Carbide structure: greater than 350.000 Carbides per square mm

14. Open coil annealed strip (OCA) 1050/1065/1075 - steel rules and die steel

HTSUS 7225.50.80, 7209.16.00, 7209.17.00.

This product is a specialized cold rolled strip with no common name used after hardening in the U.S. by the paper and textile industry for steel rules and die steel. The product is a cold-rolled strip in heat-treatable steel grades AISI 1050/1065/1075 with decarburized surface. The product requires special annealing for low carbon surface for AISI grades 1050, 1065, and 1075. Production of this product requires open coil batch annealing facilities and special annealing systems for decarburizing. Surface-decarburized C-steel, C-content 0.30 - 0.80 percent and Cr 0-0.50 percent. Decarburization of hot and cold rolled steel; thickness range 0.50 - 3.00 mm (0.020 - .120); strip widths: 300-800 mm (12-31 inches); decarburization in an open coil batch annealing line; defined, adjusted decarburization depths of 10 - 300 um with adjusted C-carbon transition gradient. This product is not hardened but requires another unique open coil process annealing for low carbon surface for AISI grades 1035, 1045, 1050, 1065 and 1075. Thickness Tolerance: T3 and better

31. Ski Edge Profile

HTSUS 7228.60.80 and 7216.69.00

This product is used by the ski-and snowboard industry. Grade: SAE 1070 and German Grade X35Cr17; hardened and tempered, bright surface or primer coated, stamped condition.

Chemistry:

C = 0.33 - 0.45 percent

 $Si \le 1.0$ percent

 $Mn \le 1.5$ percent

P max. 0.040 percent

S max. 0.025 percent

Cr = 15.5 - 17.5 percent

Mo = 0.8 - 1.3 percent

 $Pi \le 1.0$ percent

See attached drawing.

32. High Carbon Deep Drawing Steel Alloyed

HTSUS 7211.29.60, 7226.92.50

This product is used in the stamping and tooling industry. This product must have special tolerances with regard to thickness, tensile strength and surface condition. All material is produced to customer specification. Grade: 1050 modified, 1070 and 1074 modified, 1095 modified; annealed and skin passed; thickness .010 – 0.125 inches; width: 12.375 – 20.000 inches. Special tolerances 1075 and 1095. Chemistry: Cr greater than 0.3 percent; S less than or equal to 0.015 percent; P less than 0.02 percent.

Thickness tolerances

Less than or equal to \pm 0.0005 inches for thickness .010 inches \pm 0.032 inches, and \pm 0.001 inches for thickness .033 and above.

The material is delivered in spheroidized condition degree greater than 96 percent), τ value greater than 1.25 measured to E^V 10139 App. A. In addition the material is supplied with an extraordinary surface (not standard). Following values apply: RA less than or equal to 0.35 mm or 0.7 mm \leq RA \geq 2.00 mm.

34. Certain Lapping Carrier Steel

HTSUS 7209.17.00, 7225.50.80, 7226.92.50

The product is used in the computer industry. Grade SAE 1075 modified and SAE 1095 modified (alloyed); hardened and tempered; thickness – 0.10 - .040 inches; Width: 12.000 – 24.000 inches. The product has extremely low thickness deviation across the width of the material (maximum 0.0004") in connection with a very high hardness and extremely low flatness values (0.001" per inch width). To SAGA's knowledge, there is no U.S. production of this product according to these specifications. Cr greater than 0.30 percent. Hardness max. 50 RC.

41. Product 1075 T5 Tol. And better, 24.5 inch width

HTSUS 7225.50.80.

This product is used in the production of special parts (precision stamping) for the automotive industry and requires exact dimension.. To SAGA's knowledge, there is no U.S. production in these widths and no substitute products. This product is a cold rolled strip steel for strip hardening with extremely tight tolerances in widths (for instance: cold rolled strip AISI 1075 in thickness 0.0042 inches) with tolerances +/- .0004 inches. (T5 = based on the international recognized tolerance tables for precision strip products. Thickness range 0.2 - 3.0 mm (.008 to 0.12 inches). Production requires specially produced hot bands with very tight tolerances, measured cross and length rolling direction, state-of-the-art cold roll mill equipped with different specialized types of gauge control systems.

Chemistry:

C = 0.70 - 0.80 percent

Si = 0.15 - 0.30 percent

Mn = 0.50 - 0.70 percent

P = max. 0.020 percent

S = max. 0.010 percent

Al = max. 0.020 percent

Cr = 0.31 - 0.50 percent

Width: 24.5 - 40 inches.

42. Product 1095 T5 Tol. And better 24.5 inch width

HTSUS 7225.50.80.

This product is used in the production of special parts (precision stamping) for the automotive industry and requires exact dimension. To SAGA's knowledge, there is no U.S. production in these widths. This product is a cold rolled strip steel for strip hardening with extremely tight tolerances in widths (for instance: cold rolled strip AISI 1075 in thickness 0.0042 inches) with tolerances +/- .0004 inches. (T5 = based on the international recognized tolerance tables for precision strip products. Thickness range 0.2 - 3.0 mm (.008 to 0.12 inches). Production requires specially produced hot bands with very tight tolerances, measured cross and length rolling direction, state-of-the-art cold roll mill equipped with different specialized types of gauge control systems.

Chemistry:

C = 0.97 - 1.03 percent

Si = 0.15 - 0.30 percent

Mn = 0.40 - 0.50 percent

P = max. 0.020 percent

S = max. 0.005 percent

Al = max. 0.020 percent

Cr = 0.31 - 0.50 percent

Width: 24.5 - 40 inches.

57. 2% Nickel T5 Tolerances and ra less than 8 my

Used in the production of various types of saws, especially for stone saws. To SAGA's knowledge, there are no U.S. producers of this product. The product is a cold rolled steel strip. Production requires special melting companies for this grade with special hot rolling technology.

Chemistry:

C = 0.70 - 0.80 percent

Si = 0.15 - 0.35 percent

Mn = 0.30 - 0.50 percent

P = max. 0.020 percent

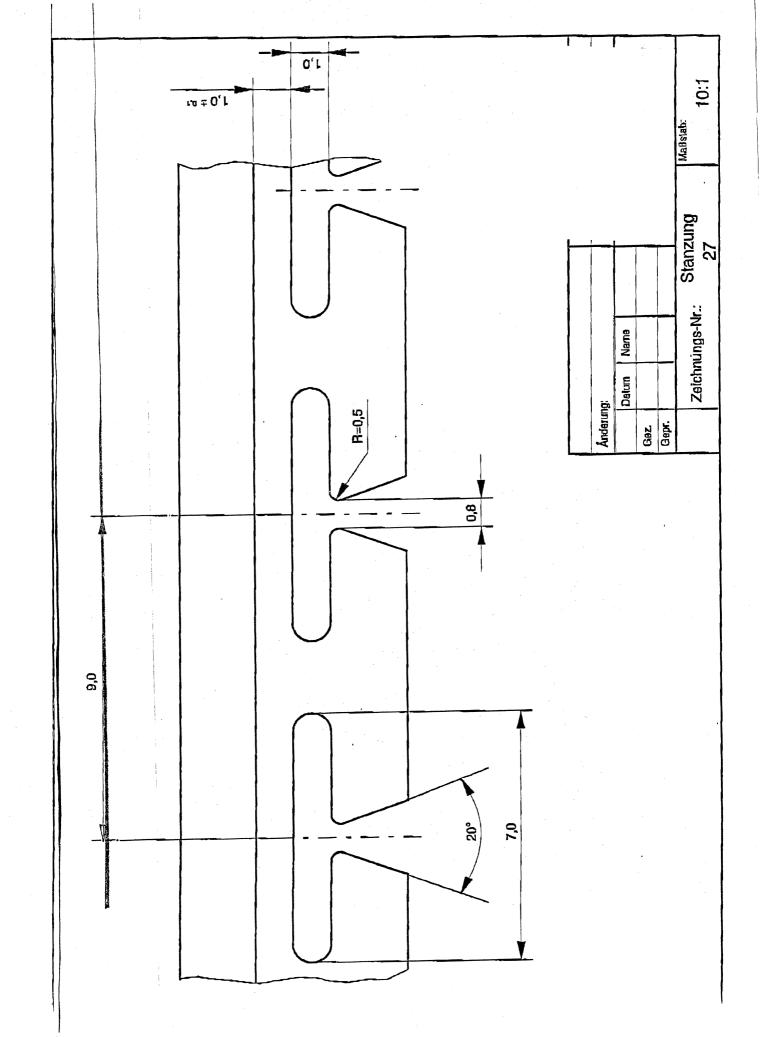
S = max. 0.010 percent

Al = max. 0.020 percent

Cr = 0.05 - 0.30 percent

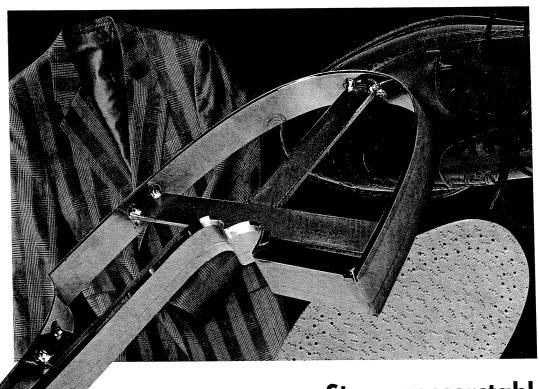
Ni = 1.90 - 2.20 percent

High precision T5 Tolerance Thickness range: 0.5 – 3.5 mm Width range: 50 – 650 mm Roughness: Ra (RMS) max. 8μinch





BÖHLER



Stanzmesserstahl
Rule Die Steel
Acier pour emporte-pièce
Aceros para troqueles de corte
Nastri acciaio per fustelle
Aço para navalhas de corte por estampagem

HF-Orange HF-Orange HF-Naranja HF-Arancio HF-Orange

Normal-Gelb Normal-Yellow Normal-Jaune Normal-Amarillo Normale-Giallo Normal-Amarelo

Grundkörperhärte
Body hardness
Dureté des corps
Dureza del cuerpo
Durezza del corpo
Dureza do material da base

37 - 39 HRC

41 - 43 HRC

Schneidenhärte
Hardness of the cutting edge
Dureté des tranchants
Dureza del filo
Durezza del tagliente
Dureza do fio de corte

50 HRC

41 – 43 HRC

Biegefähigkeit Bendability Flexibilité Flexibilidad Piegabilità Dobramento a frio



	60°	1,5 mm - 2 mm	90°
and green	80°	2/5 mm	90°
	85°	2,8 mm	100°
	90°	3 mm 3 5 mm	110°

Stanzmesserstahl – Rule Die Steel – 1 Nastri acciaio per fustelle – Aço parc

Тур Туре	Lagerdimensi Stock dimensi Dimensions e
Type	Medidas de ε
Tipo	Dimensioni a
Tipo	
Tipo	Dimensões de
BE	19 x 2,0
DE	$19 \times 2,5$
	19 x 2,8
	19 x 3,0
	$32 \times 2,0$
	02 X 2,0
BD	$19 \times 2,0$
	$19 \times 2,5$
	19×2.8
	$32 \times 2,0$
	$32 \times 2,5$
AE	19 × 2,0
AL	$32 \times 2,0$
	$32 \times 2,5$
	,
Commenced and Control of Control	
AD	19 x 2,0
TF / TE	19 x 2,0
TE-g / TE-w	$32 \times 2,0$
	$32 \times 2,5$
	32 × 3,0
	50 × 2,5
	50 x 2,8
	30 X Z/0
ATE	
CE / CE	32 x 2,5
SE-g / SE-w	





Acier pour emporte-pièce – Aceros para troqueles de corte – ara navalhas de corte por estampagem

mension (HF-Orange) imensions (HF-Orange) ions en stock (HF-Orange) is de existencia (HF-Naranja) ioni a magazzino (HF-Arancio) ões de armazenagem (HF-Orange)

 $50 \times 2,5$

Anwendung Application Utilisation Aplicación Applicazione Aplicação

0	$32 \times 2,5$
5	32×2.8
8	$32 \times 3.0^{\circ}$
0	50×2.8
Ω	25×2



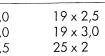




0			
5			
8			
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5			







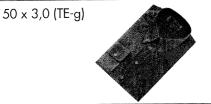








(TE-g) (TE-g / TE-g / TE-g / TE-g	
(TE-w)	,
(TE-g) (TE-g /	TE-w)

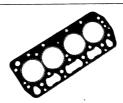






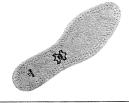






,5 (SE-g)

,0 ,5 ,0 ,5 ,8





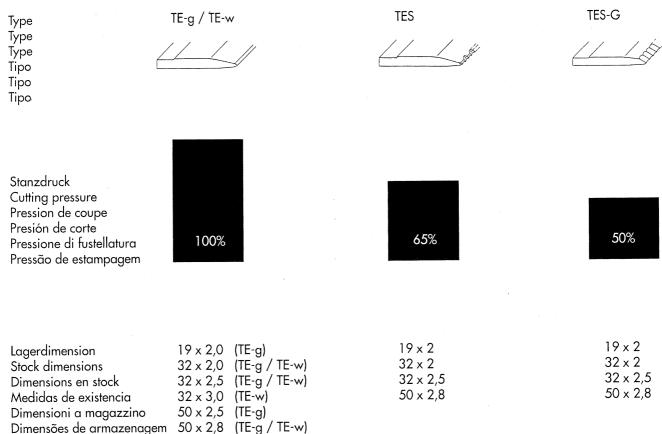


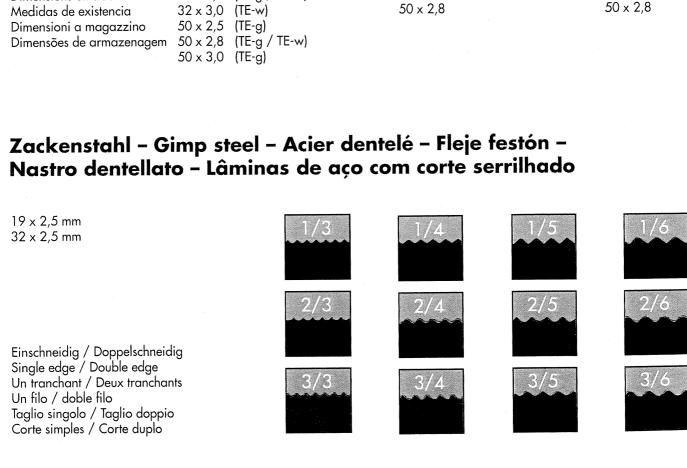




AE-extrahard

Textilstahl – Textile steel – Acier pour textile – Acero para textil – Nastro per impieghi tessili – Aço para corte de tecidos





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2,0

2,0 2,5 3,0 2,5

Böhler Stanzmesserstahl

Durch die sorgfältige Auswahl des Vormaterials, einen qualitätsgesicherten Herstellungsprozeß (ISO 9001) und durch laufende Forschungsarbeiten und Verbesserung unserer Produkte sind wir in der Lage, für jedes Stanzproblem die optimale Lösung zu bieten. Wir bieten Ihnen eine Vielzahl von Typen und Dimensionen in den zwei Ausführungen HF-Orange (mit hochfrequenzgehärteter Schneide) und Normal-Gelb (mit extra starkem Grundkörper). Unsere konstante Qualität sichert Ihnen gleichbleibend zufriedenstellende Resultate. Unser Erfolg: Optimale technische Lösungen, Kundenservice, Beratung.

Böhler Rule Die Steel

Through the careful selection of raw materials, a quality-assured manufacturing process (ISO 9001), and through continuous research and improvement of our product, we are in the position to offer the most optimal solution to any cutting problem. We offer a great number of types and dimensions in both the HF-Orange (with high frequency hardened cutting edge) and the Normal-Yellow (with extra strong body) designs. Our constant quality ensures steady, satisfying results. Our success: optimal technical solutions, customer service, consultation.

Acier pour emporte-pièce Böhler

Grâce au choix minitieux du matériau, un procédé de fabrication garantissant la qualité ISO 9001, ainsi que des travaux de recherches réguliers et une amélioration de nos produits, nous sommes en mesure de proposer une solution optimum à tous problèmes de découpe. Nous vous proposons une grande variété de profils et de dimensions en deux exécutions: HF-Orange (avec un tranchant durci par haute fréquence) et Normal-JAUNE (avec une seule dureté de corps plus importante que le HF-Orange). Notre qualité constante vous garantie toujours les mêmes résultats satisfaisants. Notre succès: des solutions techniques optimums, un service clientèle et des conseils judicieux.

Aceros para troqueles de corte Böhler

Debido a la esmerada selección de la materia prima, a nuestros procesos de fabricación que garantizan la calidad (ISO 9001) y a los constantes trabajos de investigación y perfeccionamiento de nuestros productos, estamos en condiciones de brindarles la solución óptima para cualquier aplicación de corte. Les ofrecemos una extensa gama de tipos y medidas en las dos versiones HF-Naranja (con filo templado por alta frecuencia) y Normal-Amarillo (con cuerpo extrafuerte). Nuestra calidad constante les asegura unos resultados satisfactorios y duraderos. Nuestro éxito: soluciones técnicas óptimas, servicio al cliente y asesoramiento.

Nastri per fustelle acciaio Böhler

Grazie all'accurata scelta del materiale di partenza, al processo di produzione in garanzia di qualità (ISO 9001), al lavoro di ricerca ed al miglioramento continuo dei nostri prodotti, siamo in grado di offrire la soluzione migliore per qualsiasi problema di fustellatura. Offriamo inoltre una grande varietà di tipi e dimensioni nelle due esecuzioni HF-Orange (con tagliente temprato ad alta frequenza) e Normal-Yellow (con corpo di supporto ad alta resistenza). La nostra qualità costante garantisce risultati buoni e permanenti. Il nostro successo: soluzioni tecniche ottimali, servizio di assistenza, consulenza.

Aço Böhler para navalhas de corte por estampagem

Mediante a escolha cuidadosa do material básico, um processo de produção que incorpora o controle da qualidade (ISO 9001), e trabalhos contínuos de pesquisa, desenvolvimento e aperfeiçoamento de nossos produtos, somos capazes de apresentar-lhes a melhor solução para qualquer problema relacionado à estampagem. Oferecemo-lhes uma grande variedade de tipos e dimensões em duas versões, HF Orange (com fio de corte temperado a alta freqüência) e Normal Amarelo. A nossa qualidade garantida assegura-lhes vida útil extremamente elevada de suas ferramentas. As nossas vantagens são: perfeitas soluções técnicas, assistência pós-venda e consultoria.



THE EUROPEAN NETWORK FOR QUALITY SYSTEM ASSESSMENT AND CERTIFICATION

This is to state that bohler-ybbstal band gmbh & co kg division of bohler-uddeholm ag rotte wüher waidhofnerstrasse 3 A-333 bohlerwerk austria

holds the Quality System Certificate

FM 34461 BS EN ISO 9001 : 1994

for the standard from the
BS EN ISO 9000
series, and the scope as specified therein

Rodd

Signed for and on behalf of EQNet member



DATE: 26 July 1996 NUMBER: E10335/96

AENOR Spain AFAQ France Allb-Vingotte Belgium BSI QA United Kingdom CISQ Italy DS Denmark DQS Germany ELOT Greece IPQ Portugal KEMA Netherlands NCS Norway NSAI Ireland ÖQS Austria SFS Finland SIS Sweden SQS Switzerland

The issuing member holds all other EQNet members harmless for any claims arising from the existence of this document

Pi 18 issue 1



BÖHLER-YBBSTAL Band GmbH & Co KG Rotte Wühr, Waidhofner Straße 3 A-3333 Böhlerwerk, Austria Tel.: ++43 (0) 74 42 / 600-250,, 254 Fax: ++43 (0) 74 42 / 600-260

Ein Unternehmen der BÖHLER UDDEHOLM Gruppe





Creasing Rules

A) General Information:

The quality of the creasing rules is equally as important as the quality of the cutting rules.

The design of boxes is becoming ever more complex and due to the continually increasing speed of packaging production machinery, the use of high quality creasing rules is becoming more and more important.

BÖHLER, therefore, produces a wide range of creasing rules which equal BÖHLER cutting rules in their accuracy:

- very smooth crease head surface
- a perfectly radiused, smooth profile
- a flowing continuity from the radiused profile to the side faces of the rule
- minimum eccentricity
- minimum height tolerances
- rule thickness complementary to cutting rules
- SUPREME coating possible

B) Manufacturing Programme:

BÖHLER creasing rules are produced in two manufacturing methods, depending on the rule thickness required:

HT - Hardened and Tempered Creasing Rules:

This method of manufacture guarantees the required stability of rules, with a relatively small cross-section.

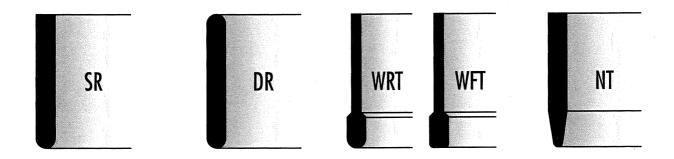
HR - Hard Rolled Creasing Rules:

Using a special rolling process the required tensile strength and stability of the rule is guaranteed.

Brand	Hardness	1,5 pt 0,53 mm	2 pt 0,71 mm	3 pt 1,05 mm	4 pt 1,42 mm	6 pt 2,13 mm
BÖHLER HT	~ 400 HV (41 HRC)	,		V		
BÖHLER HR	min. 265 HV (850 N/mm²)				•	V

Creasing Rules

C) Profiles:



	e Round SR		e Round DR		ide Top T / WFT		ow Top VT
[pt]	[mm]	[pt]	[mm]	[pt]	[mm]	[pt]	[mm]
1,5	0,53	1,5	0,53	2/3	0,71 / 1,05	2/1	0,71 / 0,36
2	0,71	2	0,71	2/4	0,71 / 1,42	2 / 1,3	0,71 / 0,45
3	1,05	3	1,05	3/6	1,05 / 2,13	2 / 1,4	0,71 / 0,50
4	1,42	iga (na 1627) i titulo del tetto (no perior perior perior perior del tetto (no tetto (no tetto (no tetto (no t	T-19 (200-4) (19 (200-6) (2019) (200-6	3/8	1,05 / 2,84	2 / 1,5	0,71 / 0,53
6	2,13			4/8	1,42 / 2,84		100 TORK 150
Star	Standard		can style		LASER C	REASE	

D) Range of Dimensions:

Rule Thickness s			Standard Heights h		
[pt] [mm]		[inches]	[mm]	[inches]	
1,5 - 6	0,53 - 2,13	0.021" - 0.084"	20,30 - 24,40	0.800" - 0.960"	

other rule heights on request

Creasing Rules

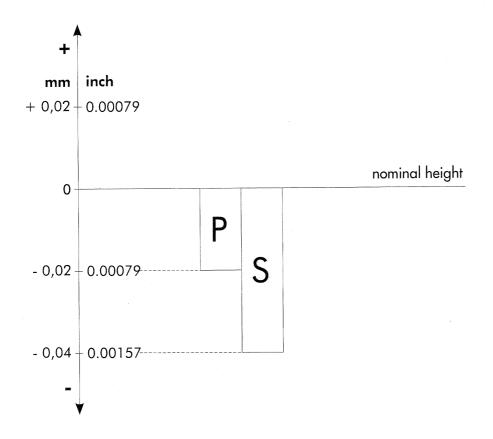
E) Tolerances of Dimensions:

Thickness Tolerance:

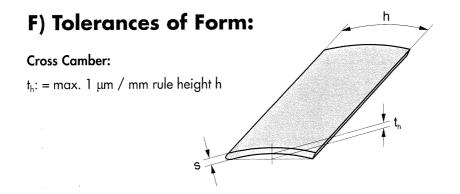
	Rule Thickness s	Thickness	Tolerance	
[pt]	[mm]	[inches]	[mm]	[inches]
1,5	0,53	0.021"	± 0,015	± 0.0006"
2	0,71	0.028"	± 0,015	± 0.0006"
3	1,05	0.041"	± 0,020	± 0.0008"
4	1,42	0.056"	± 0,020	± 0.0008"
6	2,13	0.084"	± 0,025	± 0.0010"

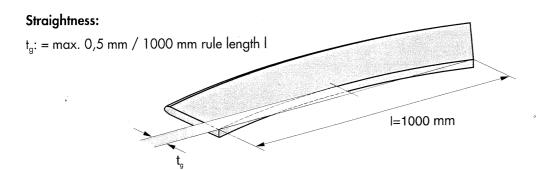
Height Tolerance:

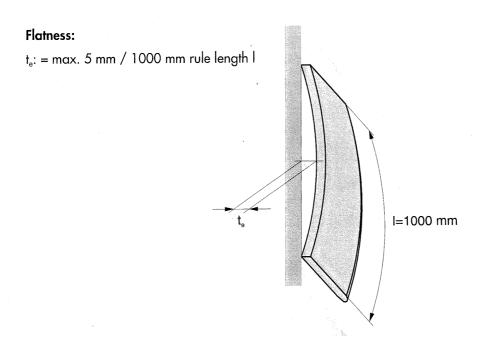
Rule Height h		Height Tolerance		
[mm]	[inches]	[mm]	[inches]	
20,30 - 24,40	0.800" - 0.960"	+0 / -0,04 +0 / -0,02	+0 / -0.0016" +0 / -0.0008"	Standard Precise (on request)



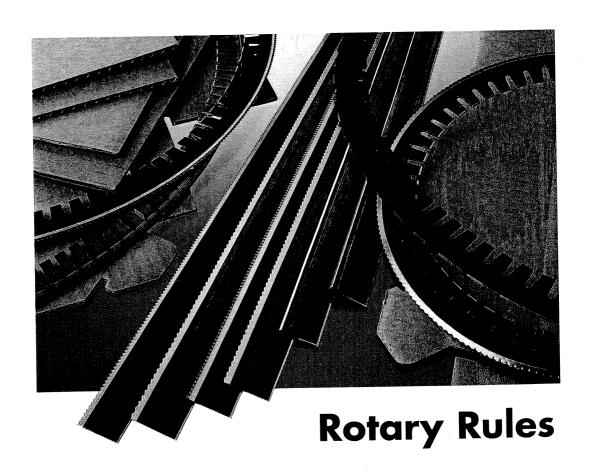
Creasing Rules











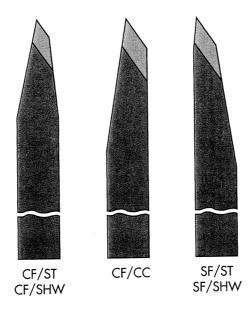
Serrated Cutting Rules

All BÖHLER rotary cutting rules have a drawn bevel and extremely accurately ground teeth.

A) Types of Profile:

CF – Centre Face
/ST Standard
/CC Clean Cut
/SHW Shallow, waved

SF – Side Face /ST Standard /SHW Shallow, waved



ov Talada Cha	Tooth Shapes:		Teeth/	Tooth Spacing	
8) 100th 3nd	ipes:		Inch	[mm]	[inches]
ST Standard	Bevels CF, SF		8 10 12 16	3,18 2,54 2,12 1,59	0.1250" 0.1000" 0.0833" 0.0625"
CC Clean Cut	Bevels CF	Typonica A, language	8	3,18	0.1250″
SHW Shallow, waved	Bevels CF, SF		8 12	3,18 2,12	0.1250″ 0.0833″

Serrated Cutting Rules

C) Brands:

The standard brand of our rotary cutting rules is TOP 36. Rules with back execution SNN (axial - for horizontal cuts) can also be supplied in TOP, if required.

For the best possible service life, we recommend our edge-hardened cutting rules UNIVERSAL and UNIVERSAL 60.

	Harc	ness	is used:	
Brand	body	edge	axial	radial
BÖHLER TOP 36	~ 34 (34 l	0 HV HRC)	•	
BÖHLER TOP	~ 450 HV (45 HRC)		~	managara ya maga na magawa 122 Ma
BÖHLER UNIVERSAL	~ 340 HV (34 HRC)	~ 500 HV (49 HRC)	•	•
BÖHLER UNIVERSAL 60	~ 450HV (45 HRC)	~ 500 HV (49 HRC)	~	,

D) Range of Dimensions:

Rule Thickness s			Standard Heights h	
[pt] [mm] [inches]		[mm]	[inches]	
3-6	1,05 - 2,13	0.041" - 0.084"	21,30 - 26,70	0.840" - 1.050"

other heights on request

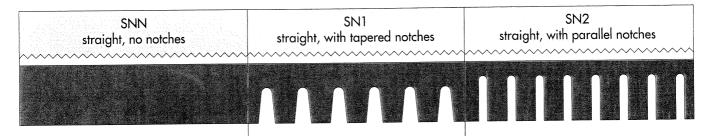
E) Forms of Delivery:

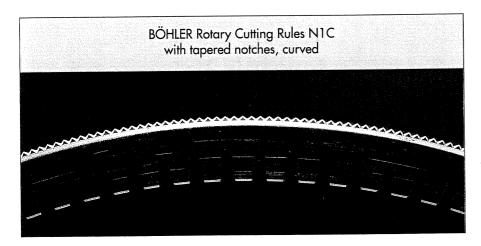
Back Execution	available are:	Coils	Strips	
SNN SN1 / SN2		4	4	

Coil Lengths		Strip Lengths		
[m]	[ft]	[mm]	[inch]	
30,5	100	914,4	36	
	Property (1000 0		

Serrated Cutting Rules

F) Back Execution:





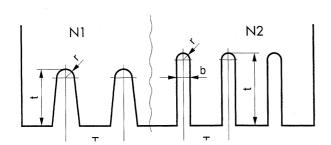
The curved rules are stress relieved after bending to prevent cracking at the bridges and to guarantee maximum dimensional accuracy on the cylinder.

As standard a nominal inner diameter IDn of 487 mm (19 3/16" = size for 66" cylinder) is applied.

Other diameters should be specified.

To ensure an optimum fit of the curved rules in the plywood, our mill produces a 2% smaller inner diameter to ensure a better fit to the cylinder.

G) Dimensions of the Notches:



	Tapered Notches N1		Parallel Notches N2	
	[mm]	[inch]	[mm]	[inch]
Spacing T	12,7	0.500"	10,0	0.394"
Depth t	12,2	0.480"	16,0	0.630"
Radius r	1,9	0.075"	1,5	0.059"
Width b			3,0	0.118"

Creasing Rules

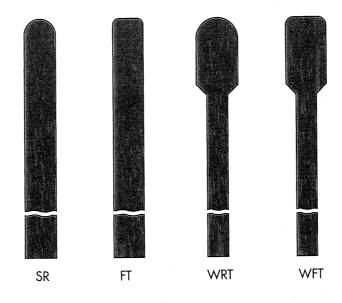
A) Types of Profile:

SR - Single Round

FT - Flat Top

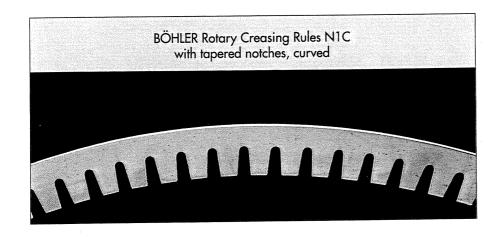
WRT - Wide, Round Top

WFT - Wide, Flat Top



B) Back Execution:

SNN straight, no notches straight, with tapered notches straight, with parallel notches



Creasing Rules

C) Brands:

Brand Hardness		3pt 1,05 mm	4 pt 1,42 mm	6pt 2,13 mm	
BÖHLER HT	~ 400 HV (41 HRC)	.	on request	on request	
BÖHLER HR	min. 265 HV (850 N/mm²)		. •	V	

D) Range of Dimensions:

Rule Thickness s			Standard Heights h	
[pt] [mm]		[inches]	[mm]	[inches]
3 - 6	1,05 - 2,13	0.041" - 0.084"	20,05 - 25,40	0.790" - 1.000"

other heights on request

E) Forms of Delivery:

Back Execution	available are:	Coils	Strips	
SNN	 →	~	· ·	
SN1 / SN2		V		
N1C /N2C	>	~		

Coil Lengths		Strip Lengths	
[m]	[ft]	[mm] [inc	
30,5	100	914,4	36
50,0		1000,0	

Special Rules

A) Type of Profile:

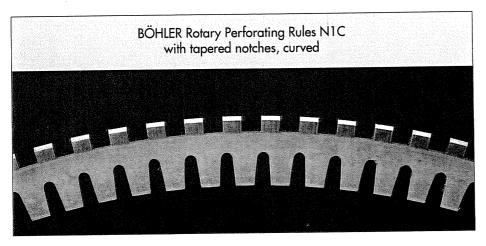
CF - Centre Face

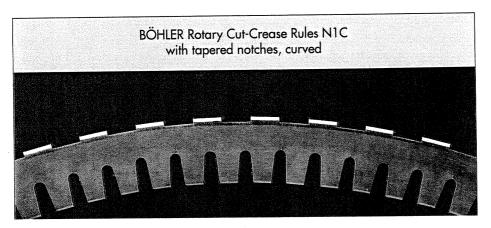


B) Brands:

D	Hardness		is used:	
Brand	body	edge	axial	radial
BÖHLER TOP 36	~ 32 (34	(O HV HRC)		~
BÖHLER TOP		50 HV HRC)		

Examples:







THE EUROPEAN NETWORK FOR QUALITY SYSTEM ASSESSMENT AND CERTIFICATION

This is to state that BÖHLER-YBBSTAL BAND GMBH & CO KG DIVISION OF BÖHLER-UDDEHOLM AG ROTTE WÜHR WAIDHOFNERSTRASSE 3 A-3333 BÖHLERWERK AUSTRIA

holds the Quality System Certificate

FM 34461 BS EN ISO 9001 : 1994

for the standard from the BS EN ISO 9000 series, and the scope as specified therein

Signed for and on behalf of EQNet member

DATE: 26 July 1996

NUMBER: E10335/96

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The issuing member holds all other EQNet members harmless for any claims arising from the existence of this document

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A company of the BÖHLER UDDEHOLM group